Receiving Report

•	oate: ///s/25 Supplier: 2 /2			Batch No: Dart P/O:	<u>M/3</u>	0 /86 34 5 7 .	20407
Packing Slip: Invoice: Receipt: New Supplier Discrepancies			Waybill At	Complete: pection	Yes	No No No	N/A
Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number
4							
					.3		
Production/Ac	dmin:			Initials of	Receiver	QC12	

H:\FORMS\Purchasing\approved purch\RECREPORT Rev F



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Tel: 613 632 9577

Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO25457

Purchase Order Date 8/20/2014 PO Print Date 8/21/2014

Page Number 1-of 2

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 **USA**

VU-BEA001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

305-925-2600

FedEx PI ppd

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms Currency Net 30

USD

FOB

FCA - (Free Carrier)

Ship Acct: Line Reference Description/ Req Date/ CD Req Qty/ Extended Nbr **Vendor Part Number** Mfg ID Taxable Unit of Measure **Line Comments** Promise Date **Delivery Comments** AN924-6J NUT 8/22/2014 20.00 \$2.60 \$52.00 Yes 57322 Each 8/22/2014 Line Total: \$52.00 MS21043-3 Nut 8/22/2014 FN 500.00 \$0.38 \$190.00 Yes Each 8/22/2014 Line Total: \$190.00 MS20470A2-12 Rivet 8/22/2014 FN 4,000.00 \$0.01 \$50.00 Yes

8/22/2014

Note:

in in Jeny



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO25457

Purchase Order Date 8/20/2014 PO Print Date 8/21/2014

Page Number 2 of 2

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 **USA**

VU-BEA001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

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Ship To Contact

Ship To Phone

305-925-2600

FedEx PI ppd

Buyer

Chantal Lavoie

Customer POID ' Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

1-14/8/28

Ship Via: Ship Acct:

Line Total:

\$50.00

AN5-50A

Bolt

8/22/2014

Yes

12.00 Each

\$7.67

\$92.04

8/22/2014

Line Total:

\$92.04

71401-45

8/22/2014

8/22/2014

No

\$0.00

\$0.00

Procurement Quality Clauses A005 RIGHT OF ENTRY A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS 1.00

Line Total:

\$0.00

PO Total:

\$384.04

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Qualify Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explaination.



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191 Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO25457

LNE# QUANTITY U/M PART-NUMBER

CUST REF#

LOT-NUMBER

MANUFACTURER

CCODE MFR DATE EXP DATE

EA ANS-50A

304307

CALIFORNIA SCREW PRO 82507

Jason Lewis

Vice President of Quality

Inv # 08/22/14

PAGE: 24 AIRSUPPLY DIVISION DATE: 1/12/09 70 HCS ROANOKE WSTD: RNK7HL32 RECEIPT TRAVELLER: A1194869 TIME: 13:10:59 VENDOR: 3088 PHRCHASE ORDER: 1014061 CALIFORNIA SCREW PRODUCTS CORP BUYER: DATE RECEIVED: 1/12/09 RECETVING: LINE QUANTITY PART NO./DESCRIPTION ITEM RECEIVED AN5-50A 490 BOLT DASH GROUP: Source Delegate VENDOR ITEM#: **OUALITY PROCUREMENT CLAUSES: ABCEHPUV** QUALITY ASSURANCE: SCHEDULE DEPT. WORK OPERATION/DESCRIPTION DATE NO. CENTER NUMBER QUANTITY QUANTITY MANUFACTURER BATCH CURE SAMPLE HPG LOT # DATE ACCEPTED REJECTED LOT SIZE 0901032027 A Manufacturer's C of C Ouality Documents: E Chem-Phys or Material Cert 3088 CALIFORNIA SCREW PRODUCTS CORP Manufactured by: INSPECTION NOTES: STAGING: WAREHOUSE NUMBERS LOCATION ADDRESS

LOC: 15DC6A 152207

QUANTITIES

MANUFACTURERS OF AIRCRAFT FASTENERS AN-MS-NAS

CALIFORNIA SCREW PRODUCTS CORP.

DADAMOUNT CALLE 00723-3423

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Form QCSP019 Form Revision Date: 06/06/2007



MGF Industries, LLC

6440 E. Canning Street Los Angeles, CA 90040 Phone (323) 722-4933 Fax (323) 721-2738

WORK ORDER 012986

CERTIFICATION 6708E/ SALES ORDER / RLS 785568 / 1

ISO 9002 REGISTERED

ACCREDITED CHEMICAL TESTING

SOLD TO

Cal Screw Products 14957 Gwenchris St. Paramount, CA 90723 **USA**

J/N304307

SHIPMENT DATE CARRIERS LADING NO QUANTITY CUSTOMER P.O. **CUSTOMER PART** 03/13/2001 00025782 3,431 LBS h1330/ 10981/ SPECIFICATION C048740-103085A A-8740, AQ, SKFG, CHQ WIRE, SAIP Zinc Phosphate, Lime & Stearate Coating, Size:0.308/0.309/Specifications: AMS2301H/AMS6322L/MIL-S-6049A/AMEND 1, AMS-S-6049 CERTIFICATION REQUIREMENTS

Chemical Properties

.28/

Physical Properties

Cleanliness Mill Source Grain Size Jominy 1 Jominy 2 Jominy 3 Inclusions Macro Daido F&S=0 110-41 S2-R1-C2 GOOD 9.8 j5=53 18=46

Mechanical Properties

Results **UNITS** 82.1 KSI Tensile Strength 69.8 KSI Yield Strength 22.5 % % Elongation 77.0 % Reduction of Area 87 Rockwell Hardness B Scale

> RMIR 6349 JOSE CERVANTES 3.14.2001

Merchandise covered by this invoice is warranted to be free from defects in workmanship or material but not for any specific length of time, type or measure of service. No claim for allowance will be recognized unless presented in writing within 10 days time after receipt of material. Our maximum liability for any claim predicated upon defective merchandise is limited to replacement of the order swill not be repayment of it, or to repayment of the purchase price thereof, as we elect. Material cut to specific length or size cannot be returned for credit and request for cancellation of such orders will not be considered if manufacture has been commenced. Buyer, by acceptance of the merchandise covered by this invoice, agrees to the foregoing terms and conditions and those set forth on the reverse

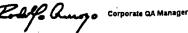
"The recording of false, fictilious or fraudulent statements or entries on this document may be punished as a felony under Federal statutes including Federal law. Title 18, Chapter 47." REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL.

MGF Industries metallurgical laboratory is accredited in the following test: chemical analysis per ASTM E 415, mechanical testing per ASTM A 370. Rockwell hardness per ASTM E 18, metallographic mount preparation per ASTM E 3, decarburization depth per ASTM E 107, IFt 140, inclusion rating per ASTM E 45.

The reported Chemical and Physical Properties are Melt Source results. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by A2LA or covered by MGF Industries' A2LA accreditation.
TEST RESULTS RELATE ONLY TO THE ITEMS TESTED.

Material is free of mercury, radium, or alpha contamination.

Rodolfo Arroyo



03/13/2001



Daido Steel Co. Ltd.

Cable adress: Steel, Nagoya Tel Nagoya (611) 2525

6080F

6708E

6708E

HOSHIZAKI PLANT

JAPAN

NO. 08-0335 (2/ 4)

DATE AUG. 19. 2000

	GRAIN SIZE TEST (ASTM OXID)	MICRO STRUCTURE TEST	DECARBURIZATION	SIZE
5M30E			TEST (MM)	(1
	9.9	GOOD	GOOD(0.10)	DIA.6
60 8 0F	9.4	GOOD	GOOD(0.08)	DIA.8
6708E	9.8	GOOD	GOOD(0.07)	DIA.8
60.80F	9,4	GOOD	GOOD(0.10)	DIA.9
6708E	9.8	GOOD	GOOD(0.10)	(1) DIA.12
6708E	9.8	GOOD	GOOD(0.08)	DIA.15
	SUBSURFACE S-2	AIRCRAFT QUALITY	SIZE	9
5M30E	RANDOM R-1		DIAG	\mathcal{M}
4		AMS2301H AMS6322K	DIA.6	W
6080F	CENTER $C-2$	MIL-S-6049A, AMENDMEN	T 1 DIA.8	(
67DBE	•	;	DIA.8	

JOSE CERVANTES 3-14-2001

Chief of Quality Assurance Section

DIA.9

DIA.12

DIA.15

*M. Yamamoto

INSPECTION CERTIFICATE

	Vessrs:	SUM	IKIN 1	BUSSA	N COR	PORAT	ION	· .	D	ate.		AUG. 19	. 2000	Pa	cking	List N	o; <u>08-</u>	-0335 (1/_4)
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B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO25457

LNE# QUANTITY U/M PART-NUMBER

500 EA MS21043-3

CUST REF#

LOT-NUMBER

MANUFACTURER

CCODE MFR DATE EXP DATE

M019438-000

ALCOA KAYNAR FULLERT 15653

Jason Lewis

Vice President of Quality

Inv # 08/22/14

INLAND MACHINE COMPANY

MANUFACTURING AN-MS-NAS HYDRAULIC FITTINGS

MANUFACTURER'S AFFIDAVIT

RONALD DORFF	_ hereby ce	rtify that the	below named par	ts	
were manufactured by INLAND MAC	CHINE COMPA (Company Name)	1.	located at		
10762 EDISON COURT		RANCHO CU	JCAMONGA CA	91730	
(Street Address)		(city)	(State)	Zip Code	
Part No.	Part Des	cription			
AN924-6J	NUT REV. 1	1			
JOB # 6166					·

I further certify that should any change in the manufacturing process occur which changes the country of origin; I will immediately notify B / E AEROSPACE, Inc. in writing and provide a new Manufacturer's Affidavit.

(Signature)

QUALITY CONTROL MANAGER

(TISH)

6/16/14

THIS DOCUMENT IS INTENDED ONLY FOR THE USE OF THE PERSON(S) TO WHOM IT IS ADDRESSED, IT MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW, If you are not the intended recipient, any dissemination, distribution, copyling or other use of this document is strictly prohibited. If you have received this communication in error, please notify us by telephone 305.925.2600 to arrange for the destruction or return to us of original document.

10762 EDISON COURT - RANCHO CUCAMONGA, CA 91730 - 909-484-5579 - FAX 909-484-4825 EMAIL: qqarcia@inlandaerospace.com

ALLFAST LAST ANNE / SYSTEMS A SX 538 - \$ \$200 DON JULIAN ROAD OF INDUSTRY, CALIFORNIA 91745-1098 (E (6/8) 968-9388 • TWX 910-584-1815	UNITED FASTENERS 116 MAHAN ST W. BABYLON NY 11704	UNITED FASTENERS 116 MAHAN ST W. BABYLON NY 11704	FLAGS M B Selection
Steel Fasteners CATON COUNT THALWEIGHT CARRIER WEIGHT REIGHT CHARGES Picker: 030595	CUSTOMER NO. 25261 TERMS 1% - 10 Net 30 F.O.B. Brisin SHIPVIA Cheapest Way		PICKED BY PACKED BY INSPECTED BY 8OLD BY:
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B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 9835 NW 14TH ST, MIAMI, FL 33172

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FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO25457

LNE# QUANTITY U/M PART-NUMBER

4000 EA MS20470A2-12

CUST REF#

LOT-NUMBER

MANUFACTURER

CCODE MFR DATE EXP DATE

02514

ALLFAST FASTENING

53551

Jason Lewis

Vice President of Quality

Alcoa **Fastening Systems**



- Packing Slip

Packing, Slip: 9948070366

Page: 1

Bill To: 5574 B/E AEROSPACE, INC. P.O.BOX 025263 MIAMI FL 33102-5263 USA

Ship To: (14) B/E AEROSPACE CONSUM MGMT 9835 NW 14TH ST

MIAMI FL 33172

USA

From:

ALCOA FASTENING SYSTEMS AEROSPACE PRODUCTS FULLERTON OPERATIONS 800 SOUTH STATE COLLEGE **FULLERTON CA 92831** USA

> SHIP VIA: FED EX AIR BUYER: CRISTINA SANCHEZ

Order Contact: Pack Date Order # Cust PO Ship Via Weight Pkgs # _____ 08/31/13 F433565 OFRW45 .__________ Line/Rel Item AAT840 C/I: MS21043-3 Pev · 3 te: 06/10/13 te: 08/24/12 PO Item #: 2 *** TSO C-148 APPVD PART. TSO LABE COO: MEXICO Lot: M019438-000 ECCN: 9A991 Schedule-B Number: 7318.16.0000 Waybill: HTS-Code: 7318.16.0060 The export classification appears above. You are responsible for all related export license requirements. MFG C OF C CHEM & PHYS TEST REPORT REQ ** DUAL CERT TO NAS1291C3 AND LS8859-3

ALCOA GLOBAL FASTENERS, INC.

PHONE:

Kaynar Products: Cage Code 15653 • Eagle Products: Cage Code 66776 • Rosan Products: Cage code 66776

ALL CLAIMS REGARDING THIS ORDER MUST BE REPORTED TO SELLER PROMPTLY. CLAIMS FOR CREDIT OR REPLACEMENT OF PARTS MAY BE LIMITED TO THOSE PARTS FOR WHICH TRACEABILITY HAS BEEN MAINTAINED BY THE BUYER. THE SELLER'S MANUPACTURING LOT IDENTIFICATION NUMBER AND RETURN MERCHANDISE AUTHORIZATION (RMA) NUMBER MUST ACCOMPANY ALL RETURNS. ANY CLAIM BASED ON AN ALLEDGED DISCREPANCY IN QUANTITY, QUALITY, ETC. BETWEEN THE GOODS ACTUALLY SHIPPED AND/OR DELIVERED UNDER THESE DOCUMENTS, MUST BE MADE IN WRITING TO SELLER NOT LATER THAN NINETY (90) DAYS AFTER THE SHIPPING DATE APPEARING HEREON. FOR ITEMS CERTIFIED TO BPS-N-70, ALLOY VERIFICATION HAS BEEN PERFORMED ON PARTS WITH A DATE OF MANUFACTURE ON OR AFTER JANUARY 1, 2001. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. **CUSTOMER'S COPY**

_Alcoa **Fastening Systems**



Packing Slip

Packing, Slip: 9948070366

Page: 2

Bill To: 5574 B/E AEROSPACE, INC. P.O.BOX 025263 MIAMI FL 33102-5263 USA

Ship To: (14) B/E AEROSPACE CONSUM MGMT 9835 NW 14TH ST MIAMI FL 33172 USA

From:

ALCOA FASTENING SYSTEMS AEROSPACE PRODUCTS FULLERTON OPERATIONS 800 SOUTH STATE COLLEGE FULLERTON CA 92831 USA

Order Contact:

Pack Date Order # Cust PO

Ship Via

08/31/13 F433565 OFRW45

Line/Rel Item

MATERIAL COMPLIES WITH DFARS 252 9 PREFERENCE FOR DOMESTIC SPECIALTY

METALS" WITH ITS ALTERNATE 1.

***SHIP VIA FEDX AIR COLLECT ACT 33: 0149-0 IF 150 LBS OR MORE: SHIP ED EX FREIGHT ECONOMY COLLECT ACCT#

DO NOT SHIP BY ANY OTHER WITHOUT PROPER WRITTEN AUTHORIZATION.

ALLOWABLE SHIPPING TOLERANCE = +0%-0 %.

- ** BAR CODE PER QAP 33 CLAUSE P REQUIRED
- ** QAP 33.0 REV F CLAUSES: A,A.1,B,C,E,H ,P,U,V. CLAUSE A.3 GENERAL TERMS APPLIES.
- *** PER JESSICA 8/24 PULL IN MARCH & JUN E SCH FROM 2013 TO ASAP VB 8/24 chem & phys certs

ALCOA GLOBAL FASTENERS, INC.

Kaynar Products: Cage Code 15653 • Eagle Products: Cage Code 66776 • Rosan Products: Cage code 66776

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-Alcoa **Fastening Systems**



Packing Slip

Packing_Slip: 9948070366

Page: 1

Bill To: 5574 B/E AEROSPACE, INC. P.O.BOX 025263 MIAMI FL 33102-5263 TISA

Ship To: (14) B/R AEROSPACE CONSUM MGMT 9835 NW 14TH ST MIAMI FL 33172

USA

From:

ALCOA FASTENING SYSTEMS AEROSPACE PRODUCTS FULLERTON OPERATIONS 800 SOUTH STATE COLLEGE FULLERTON CA 92831 USA

Order Contact:

Pack Date Order # Cust PO

Ship Via

Weight Pkgs #

08/31/13 F433565 OFRW45

Line/Rel It

C/I: MS21043-3 RAV. 3

Cust Date: 06/10/13 Kay Date: 08/24/12

PO Item #: 2

*** TSO C-148 APPVD PART. TSO LABEL REQ'D ***

Lot: M019438-000 COO:MEXICO

Waybill:

ECCN: 9A991 Schedule-B Number: 7318.16.0000

HTS-Code: 7318.16.0060

The export classification appears above. You are responsible for all related export license requirements.

> MFG C OF C CHEM & PHYS TEST REPORT REQ ** DUAL CERT TO NAS1291C3 AND LS8859-3

SHIP VIA : FED EX AIR

BUYER: CRISTINA SANCHEZ

PHONE:

CERTIFICATE OF CONFORMANCE

This is to certify that all items noted above were produced in conformance with the contract, drawing specifications, and other applicable documents. All required process certifications, chemicals and physical test reports are on file subject to examination. This document must not be reproduced except in full and relates only to the items tested.

MICHELE M. VARELA Quality Manager Fullerton Operations

ALCOA GLOBAL FASTENERS, INC.

Kayner Products: Cage Code 15653 • Eagle Products: Cage Code 66776 • Rosan Products: Cage code 66776

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-Alcoa **Fastening Systems**



Packing Slip

Packing Slip: 9948070366

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Ship To: (14) B/E AEROSPACE CONSUM MGMT 9835 NW 14TH ST MIAMI FL 33172

USA

From:

ALCOA FASTENING SYSTEMS AEROSPACE PRODUCTS FULLERTON OPERATIONS 800 SOUTH STATE COLLEGE FULLERTON CA 92831 ART

Order Contact:

Pack Date Order # Cust PO

Ship Via

Weight Pkgs #

08/31/13 F433565 0FRW45

Line/Rel

MATERIAL COMPLIES WITH DEARS 382 225-760 9 PROFERENCE FOR DOMESTIC SPREIALTY

METALS" WITH ITS ALTERNATE 1. ***SHIP VIA FEDX AIR COLLECT ACCT# 0331-0149-0 IF 150 LBS OR MORE: SHIP FED EX FREIGHT ECONOMY COLLECT ACCT# 018757.

DO NOT SHIP BY ANY OTHER WITHOUT PROPER WRITTEN AUTHORIZATION.

ALLOWABLE SHIPPING TOLERANCE = +0%-0 %. ** BAR CODE PER QAP 33 CLAUSE P REQUIRED

** QAP 33.0 REV F CLAUSES: A,A.1,B,C,E,H ,P,U,V. CLAUSE A.3 GENERAL TERMS APPLIES.

*** PER JESSICA 8/24 PULL IN MARCH & JUN E SCH FROM 2013 TO ASAP VB 8/24 chem & phys certs

CERTIFICATE OF CONFORMANCE

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MICHELE M. VARELA Quality Manager **Fullerton Operations**

ALCOA GLOBAL FASTENERS, INC.

Kayner Products: Cage Code 15653 • Eagle Products: Cage Code 66776 • Rosen Products: Cage code 66776

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CUSTOMER'S COPY

Date Created: Saturday, 31 August, 2013_09:20:23 PM HIPPER#: 9948070366

Alcoa **Fastening Systems**

Aerospace Products **Fullerton Operations** 800 S.STATE COLLEGE BLVD FULLERTON, CA 92831



TEST REPORT

NO. 8190371 Page 1 of 3

Lot No.

M019438-000

Supplier Item No. **AAT840**

Supplier Part No. H41-3

Interchange Part No. 525-595-9005 Rev. N Interchange Part No. GTS297-4 Rev. 3 Interchange Part No. H41-3

Interchange Part No. LS8859-3 Rev. A Interchange Part No. MS21043-3 Rev. 3 Interchange Part No. N8862175/E Rev. 5a

Interchange Part No. NAS1291A3 Rev. 13 Interchange Part No. NAS1291C3 Rev. 13 Interchange Part No.

Manufactured Quantity

Mfg. Date

Generic Description

Thread Size 1900-32

63430 PLATE/COAT 01/17/13

NUT 6 POINT

HEAT TREAT AMS-H-6875 REV. B

AMS 2410 REV. K

Non-Destruct

PERFORMANCE NASM25027 REV. 1

ASTM E1417 REV. 11 E1 SAMPLE Material Spec. # AMS5731-L

Mill Heat No. 970207

Control Heat No. AA18719

Material Supplier CARPENTER TECHNOLOGY CORP

Special Process Requirements:

THREADS AND GAUGING PER AS8879 Rev.DR12

and ASME B1.3M SYS. 22

MAX EQUALS INST. MIN EQUALS BKWY

* CONFORMS TO AMS5732J AFTER HT TREAT **MAGNETIC PERMEABILITY LESS THAN 2.0**

			T	EST RESU	LTS			
TEST No. Description	υом	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement
1 - 010 TORQUE TEST	IN#	1	1	8.15	8.60		2.00	18.00
18 lbs max install./2.0 lbs min bkwy.		_	7	5.40	5.25			
18 lbs max instant/2.0 lbs min okwy.			15	5.35	4.80	1		
		2	1	7.70	8.60			
	1	_	7	5.35	5.40			
	1		15	2.00	1.80		l	
		3	1	5.50	5.60			
		_	7	5.85	5.20			
			15	4.85	4.65			
	1	4	1	5.40	6.10			
			7	4.20	4.50			
			15	5.25	5.30			
	}	5	1	6.90	7.45			
			7	5.95	5.80			
	1		15	4.65	4.45			
	1	6	1	6.25	6.30			
1	1		7	4.30	4.00			
1			15	4.25	4.25			·

TEST RESULTS - Continued on next page.

THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL AND RELATES ONLY TO THE ITEMS TESTED

The product identified on this Certificate has been manufactured, tested and unless otherwise noted, conforms in all respects to the applicable drawings, specifications and standards. Complete reports of physical and chemical tests are on file for examination. If no specified customer quality level is required, goods conform to sellers quality level. All parages Exceeding Price are Excluded. For items certified to BPS-N-70 alloy verification has been performed on parts with a date of manufacturing on or after January 1, 2001. Quality system sampling plan conforms to the requirement of QAP EQ001, QAP EQ002, QAP EQ003. The recording of false, fictitious, or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

MICHELE M. VARELA, QA MGR.

Date Created: Saturday, 31 August, 2013 09:20:23 PM HIPPER#: 9948070366

Alcoa **Fastening** Systems



Aerospace Products **Fullerton Operations** 800 S.STATE COLLEGE BLVD FULLERTON, CA 92831

TEST REPORT

NO. 8190371

Lot No.

M019438-000

Page 2 of 3

Supplier Item No.

Supplier Part No.

H41-3

AAT840			H41-3					
		TEST	RESU	LTS - Centinu	ed from previous	page.		
No. Description	JOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement
No. 2000.	1	7	1	7.40	7.10			
	ll		7	5.15	4.60	- 1		
			15	3.25	2.75	•		
		8	1	6.60	6.40			
			7	5.20	4.70	•		
	1		15	. 4.20	3.35	ļ		
		9	1	7.95	8.85	İ		
			7	5.85	6.15			
			15	5.65	6.20			
		10	1	6.30	6.25			
			7	6.30	6.10	Ì		
	'		15	5.95	6.40			
	1	11	1	4.95	5.75			
		1	7	3,60	3.80	•		
			15	3.45	3.10	Ì		
	1	12	1	7.75	8.60			
	1		7	6.20	6.35			
	1		15	6.05	5.90			
	1	13	1	9.90	10.35			
		*	7	8.00	7.95			
		1	15	6.35	7.05			
		14	1	4.95	5.30			·
			7	5.05	5.00			ļ
	1	1	15	4.35	4.30		1	
	1	15	1	5.10	5.10		i]
	1		7	5.20	5.60			l
			15	4.35	4.60		2460.00	
2 - 020 TENSILE TEST	LBS	1	1	4420.00			2460.00	
2460 lbs min	1	2	1	2600.00			Į	
2400 100 11111		3	1	2600.00]		
Ì	i i	4	1	2600.00			i i	
1	1	5	1	2600.00				Ì
		6	1	2600.00			ļ	
		7	1	2600.00	}	ļ		
1	1	8	1	2600.00				
		9	1	2600.00			1	
		10	1	2600.00			Ì	
	l	11	1	2600.00			1	1
1		12	1	2600.00				1
		13	1	2600.00				

TEST RESULTS - Continued on next page.

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Alcoa **Fastening Systems**

Aerospace Products Fullerton Operations 800 S.STATE COLLEGE BLVD FULLERTON, CA 92831



TEST REPORT

NO. 8190371 Page 3 of 3

Lot No.

M019438-000

Supplier Item No.

Supplier Part No. H41-3

AAT840			H41-3								
		TEST	RESU.	LTS - Continu	ed from previou	s page.					
No. Description	ЈОМ	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement			
No. Description		14	1	2600.00							
		15	1	2600.00		1					
3 - 110 HARDNESS	RC	1	i	39.00	42.00						
HRC 38/44				(70.00)	(81.50)	ļ					
7 - 113 Hardness	•	1	1	(79.90)	(81.30)	1	1				
(HR15N)	1 1						L				

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LCOA GLOBAL PASTENERS, INC

MICHELE M. VARELA, QA MGR.

CERTIFICATE OF TESTS

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

CERT SERIAL# 000854743

Carpenter Technology Corporation 101 West Bern Street, Reading, Pa. 19601 Tel: (610) 208-2000 (800) 338-4592

01/03/13 CUSTOMER / BESTELLER / CLIENT

THE RECORDING OF FALSE, FICTICIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18. CHAPTER 47. THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.

MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.

THIS DOCUMENT SHALL NOT BE REPRODUCED. EXCEPT IN FULL. WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

SELLER / VERKÄUFER / VENDEURPAGE

ALCOA FASTENING SYSTEMS FULLERTON OPERATION P O BOX 3001 FULLERTON ,CA 92631 CARPENTER TECHNOLOGY CORP

BERN STREET 101 W. ,PA 19601 READING

WEIGHT/GEWICHT/POIDS DATE/DATUM/DATE CARPENTER NO. /WERKS-NR. / Nº DE REFERENCE INTERNE CUSTOMER ORDER NO./BESTELL-NR./Nº DE COMMANDE 2069.000 01/03/13 LOS835201 L36332 220615654

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE :

970207

PRODUCT DESCRIPTION: A286 SOLUTION ANNEALED COLD FINISH SEAM FREE C HDG CL H2
STD CU/LM SOAP
PART NUMBER: 732084

SPECIFICATION: FAIRCHILD MS 309 CLASS A REV 16 (09/15/10)

AMS 5732 REAFFIRMED REV J (07/ /12) (CAPABLE OF)

FAIRCHILD MS 550 REV 2 (12/10/02)

AMS 5731 REAFFIRMED HEADING STOCK REV L (07/,/12)

0.279000 IN. (7.09 MM) RD SIZE

WIRE

PRIMARY HEAT CHEMISTRY (WT%):

.001 LT 0.012 0.07

THE CHEMICAL ANALYSIS OF THIS HEAT HAS BEEN PERFORMED BY THE CARPENTER SPECIALTY ALLOYS CHEMICAL LABORATORY, (CODE NUMBER PRI 100004), WHICH WAS ACCREDITED TO THE ISO/IEC 17025.

COUNTRY OF ORIGIN: U.S.A.

THIS MATERIAL HAS BEEN SAMPLED, TESTED, AND INSPECTED IN ACCORDANCE WITH THE SPECIFICATION AND MEETS ALL SPECIFICATION REQUIREMENTS.

THIS MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL REVISION 30, DATED 09/28/11.

THIS MATERIAL WAS MANUFACTURED FREE FROM MERCURY, RADIUM AND ALPHA SOURCE CONTAMINATION.

MILL HEAT TREATMENT:

TYPE

SOLUTION ANNEAL 1800F (982C)

TEMP TIME AT TEMP QUENCH

CŌNŤĬŇUÒUS FŪŘŃACE

WATER

CONTINUED ON NEXT PAGE

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes reaponsibility for, any representation or certification to other parties.

Die vorliegende Zertifizierung ist aur für den in diesem Formular genaration Kunden gültig. Carpenter übernimmi gegenüber Dritten keitenender die deutsgewissenen Daien oder Ce certificat est uniquement valable pour is client dont is nom est imprimé sie ce formulaire. Carpenter s'assume pas de responsabilité pour une cartification vis-é-vis d'une Herce partons n Dalen oder Zertifizierungen

SHIPPER#: 9948070366

CERTIFICATE OF TESTS

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

3

CERT SERIAL# 000854743

Carpenter Technology Corporation 101 West Bern Street, Reading, Pa. 19601 Tel: (610) 208-2000 (800) 338-4592

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SELLER / VERKÄUFER / VENDEURPAGE

ALCOA FASTENING SYSTEMS FULLERTON OPERATION P O BOX 3001 FULLERTON , CA 9263 ,CA 92631 CARPENTER TECHNOLOGY CORP

101 W. BERN STREET ,PA 19601 READING

CUSTOMER ORDER NO./BESTELL-NR./Nº DE COMMANDE	CARPENIER NO./WERKS-NR./Nº DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
220615654	LOS835201 L36332	01/03/13	2069.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE :

970207

HARDNESS AS SHIPPED, HRBW

89

(MIDRADIUS)

TENSILE AS SHIPPED,

KSI (MPA)

94.0(648)

GRAIN SIZE PER ASTM E112: 7

(KALLINGS)

CAPABILITY

982 C), 01 HR 718 C), 16 HR 1800 F(1325 F(

OIL TREAT AIR COOL

COMBINATION STRESS RUPTURE TEST TEMP 1200 F (67 STRESS, KSI (MPA) 70.0 (47 ELONGATION 8 28.9 649 C) TEST TEMP STRESS, KSI (MPA) ELONGATION & 80.1 HOURS

AFTER MINIMUM TIME UNDER SPECIFIED STRESS, THE STRESS RUPTURE TEST WAS OVERLOADED IN INCREMENTS AS FOLLOWS:

TOTAL HOURS

52
60
80.0(552)
68
85.0(586)
76
90.0(621)

(T) RANSVERSE (L) ONGITUDINAL YIELD STRENGTH, (0.20 %) KSI (MPA) TENSILE STRENGTH, KSI (MPA) ELONGATION IN 2.00", % REDUCTION OF AREA, HARDNESS, HBW 110.0 (758) 159.0 (1096) 23.0 HARDNESS , HBW

CONTINUED ON NEXT PAGE

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SHIPPER#: 9948070366

CERTIFICATE OF TESTS CERT SERIAL# 000854743

ABNAHMEPRUEFZEUGNIS .

CERTIFICAT DE CONTROLE

ARPENTER

Carpenter Technology Corporation 101 West Bern Street, Reading, Pa. 19601 Tel: (610) 208-2000 (800) 338-4592

01/03/13 CUSTOMER / BESTELLER / CLIENT

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THE VALUES AND D'HER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.

MATERIAL IS MANUEL SCHOOL DECESSION MECCHINA ALONG AND CAMMA SCHOOL COLTABINATION.

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SELLER / VERKÄUFER / VENDEURPAGE

ALCOA FASTENING SYSTEMS FULLERTON OPERATION
P O BOX 3001
FULLERTON , CA ,CA 92631 CARPENTER TECHNOLOGY CORP

101 W. BERN STREET ,PA 19601 READING

CUSTOMER ORDER NO./BESTELL-NR./Nº DE COMMANDE	CARPENTER NO./WERKS-NR./Nº DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
220615654	LOS835201 L36332	01/03/13	2069.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE :

970207

CAPABILITY

899 C), 02 HR 718 C), 16 HR 1650 F(1325 F(

OIL TREAT AIR COOL

COMBINATION STRESS RUPTURE 1200 F(55.0(32.4 66.8 TEST TEMP STRESS, KSI (MPA) ELONGATION % 649 C) 448) HOURS

AFTER MINIMUM TIME UNDER SPECIFIED STRESS, THE STRESS RUPTURE TEST WAS OVERLOADED IN INCREMENTS AS FOLLOWS:

TOTAL HOURS STRESS KSI(MPA)

50 70.0 (483)
58 75.0 (517)
66 79.5 (548)

(T) RANSVERSE (L) ONGITUDINAL YIELD STRENGTH, (0.20 %) KSI (MPA) TENSILE STRENGTH, KSI (MPA) ELONGATION IN 2.00", % REDUCTION OF AREA, % HARDNESS . HAW -113.0 (779) 162.0 (1117) 23.0 HARDNESS , HBW

MATERIAL HAS BEEN MELTED IN USA OR QUALIFYING COUNTRY TO DFARS REQUIRE-MENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009. THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

CARPENTER'S QUALITY MANAGEMENT SYSTEM WAS REGISTERED AS OF NOVEMBER 24, 2010 TO THE REQUIREMENTS OF ISO 9001:2008 APPROVAL CERTIFICATE 10-1385R BY PERFORMANCE REVIEW INSTITUTE. CERTIFICATE OF TEST IS PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204 (DIN 50049). WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS, AS DOCUMENTED INTHIS CERTIFICATE OF TESTS. 2010 TO

TEST METHODS ARE PER THE ASTM STANDARDS ON FILE AND IN EFFECT AT TIME OF ORDER ACCEPTANCE, STANDARD PRACTICES, OR AS AGREED UPON BETWEEN CARPENTER & CUSTOMER.

SHERRY L KREIDER ADMINISTRATOR - QUALITY CARPENTER TECHNOLOGY CORPORATION

GPV*732084

Sherry typeider

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